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**IN THE UNITED STATES**  
**PATENT AND TRADEMARK OFFICE**

Applicant: **Shuo-Yen Robert Li**

Case: **23**

Serial No. **09/882,112**

Filed: **June 15, 2001**

Group Art Unit:

Examiner:

**Title of Invention: MULTISTAGE INTERCONNECTION NETWORKS OF  
MULTICAST CONCENTRATORS WITH SELF-ROUTING  
CONTROL MECHANISM**

**THE COMMISSIONER OF PATENTS AND TRADEMARKS  
WASHINGTON, D.C. 20231**

**SIR:**

Enclosed is a Preliminary Amendment in the above-identified application.

An additional fee is required based on the calculation below for a **small entity**:

**CLAIMS AS AMENDED**

	CLAIMS REMAINING AFTER AMENDMENT	CLAIMS PREVIOUSLY PAID FOR	EXTRA	RATE	ADDITIONAL FEE
Total Claims	13	20	0	\$9.00	\$ 0.00
Indep. Claims	5	3	2	\$40.00	\$ 80.00

Multiple Claims First Presented with this Amendment = 0	\$0
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**Total: \$80.00**

Also enclosed herewith for filing in connection with the enclosed application are:

XX Return Postcard  
XX Credit Card Authorization in the Amount of **\$80.00**

Respectfully submitted,

John T. Peoples (Reg. No. 28,250)  
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(908) 580-9816

Date: 9-8-01

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9-8-01  
Date of Certificate

John T. Peoples  
John T. Peoples



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CONTROL MECHANISM**

**THE COMMISSIONER OF PATENTS AND TRADEMARKS  
WASHINGTON, D.C. 20231**

**SIR:**

**PRELIMINARY AMENDMENT**

Enclosed is a Preliminary Amendment in the above-identified application.  
Please amend the application as follows.

In the Specification:

Replace pages 8 and 9 with the following:

-- SUMMARY OF THE INVENTION

The shortcomings of the prior art, as well as other limitations and deficiencies, are obviated in accordance with the present invention by applying algebraic principles to the physical realization of a large switching fabric based upon contemporary technologies.

In accordance with one broad system aspect of the present invention, a

system for self-routing a packet includes: (i) a  $b^{2^n} \times b^{2^n}$  switching network, the network

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